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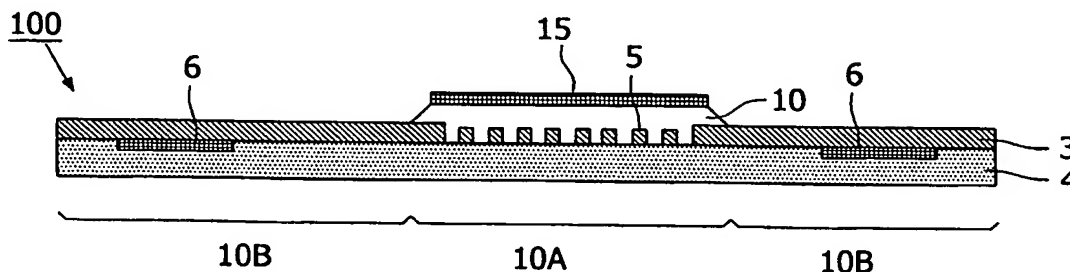
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(54) Title: **FLEXIBLE SEMICONDUCTOR DEVICE AND IDENTIFICATION LABEL**



(57) Abstract: Provided is a flexible device (100) having an integrated circuit (5) and an antenna (6) which is incorporated or directly coupled to the interconnect structure of the integrated circuit (5). The interconnect structure extends outside of the active area. An electrically insulating or dielectric layer (4) is present as support layer for both antenna (6) and integrated circuit (5). The substrate (10) is removed at non-silicon areas (10B) outside the active areas (10A) of the integrated circuit (5). This removal can be combined with the use of a substrate of monocrystalline silicon. The flexible device is very suitable for integration in identification labels and security paper, and can be manufactured using a temporarily attached carrier substrate.

WO 2005/004049 A1